

A flow chart for array-based detection of gene expression

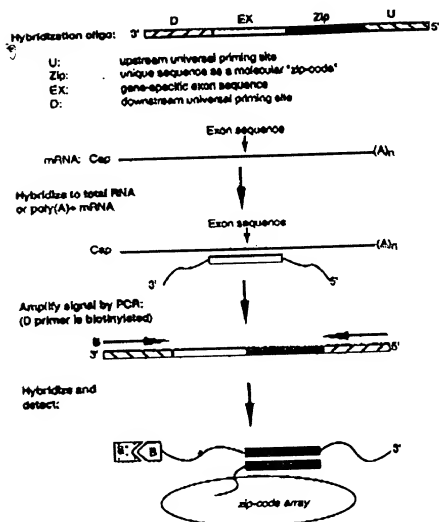


Figure 1

A flow chart for array-based detection of RNA alternative splicing

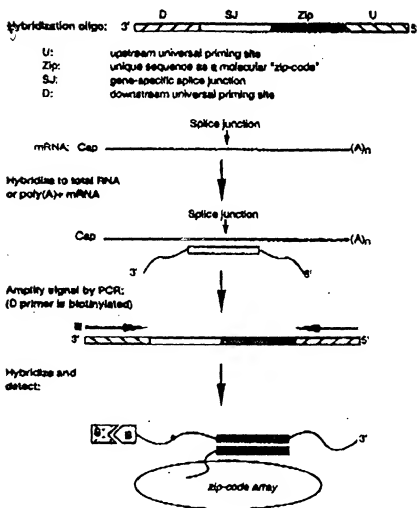


Figure 2

Genome-wide gene expression profiling using oligo-ligation strategy

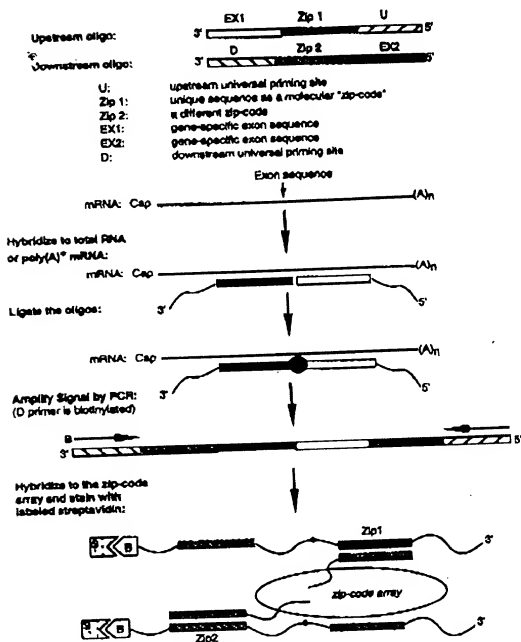


Figure 3

Genome-wide RNA alternative splicing monitoring using oligo-ligation strategy

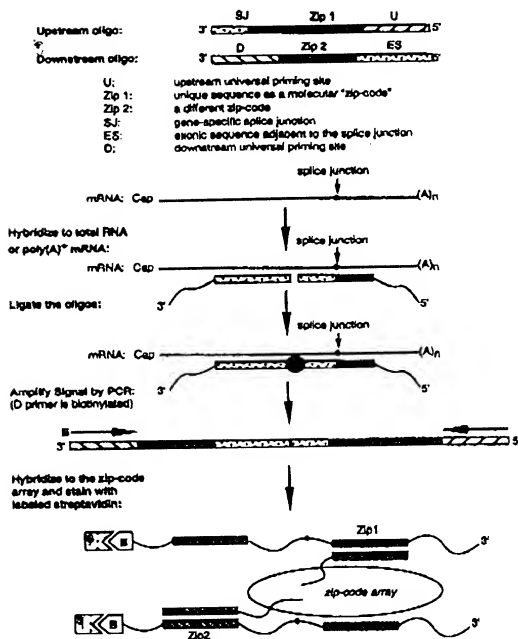


Figure 4

Direct genotyping using a whole-genome oligo-ligation strategy

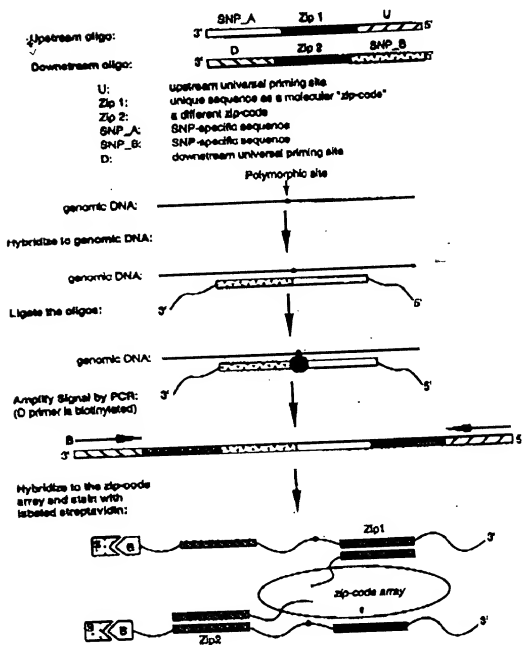
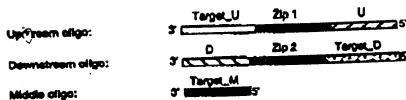


Figure 5

Whole-genome oligo-ligation strategy



U: upstream universal priming site
 Zip 1: unique sequence as a molecular "zip-code"
 Zip 2: a different zip-code
 Target_U: upstream target-specific sequence
 Target_D: downstream target-specific sequence
 Target_M: middle target-specific sequence
 D: downstream universal priming site

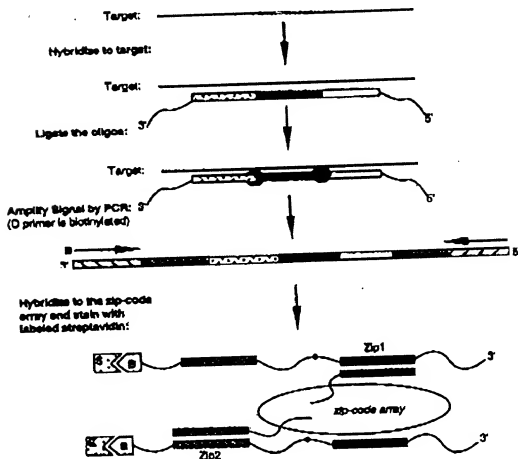


Figure 6

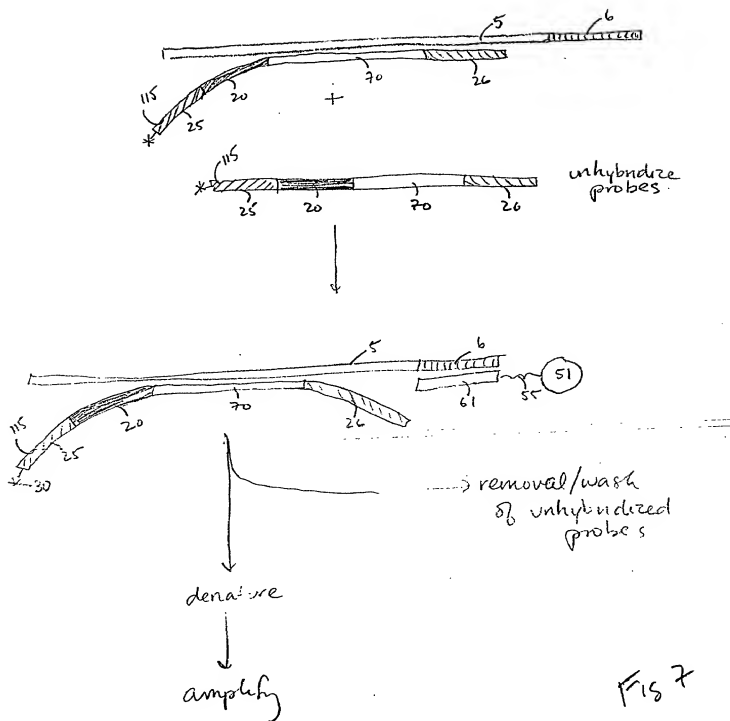
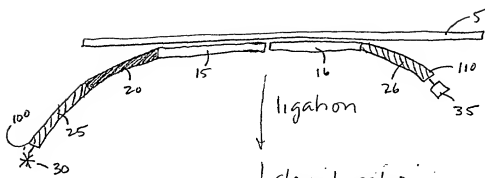


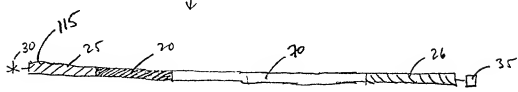
Fig 7



ligation

denaturation

addition
of exonuclease



+



addition to
array,
wash away unbound

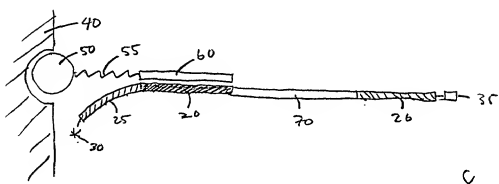


FIG 8

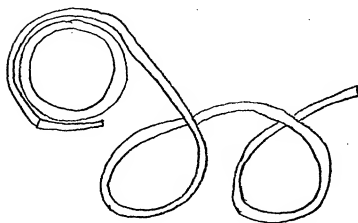
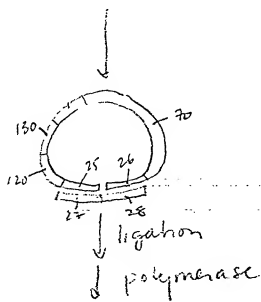
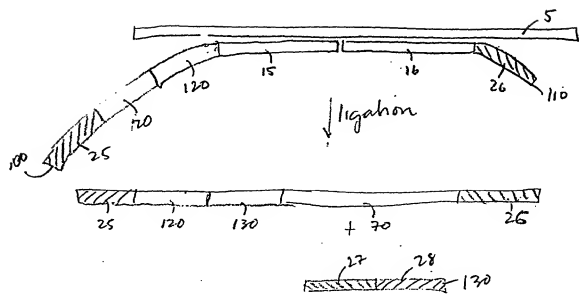
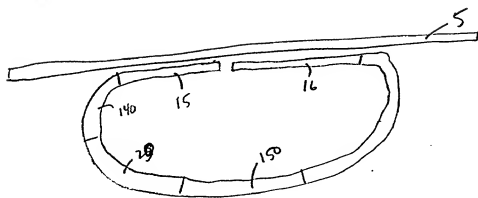
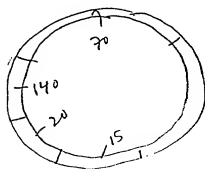


Fig 9



↓ ligation, denaturation



↓ addition of
primer,
extension

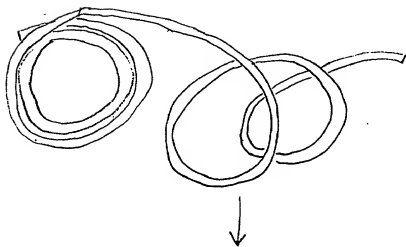


Fig 10